

Nuclear Gauge Testing Manual

Section 4

Operating Instructions

Operational Checks

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OPERATING INSTRUCTION N101

STANDARD COUNT
TROXLER 3440**1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press ON and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When <**READY**> is displayed:

- Press STANDARD
÷ and the following is displayed:
- Standard Count-
DS = XX
MS = XX
Take new count?

- Press YES
EXIT and the following is displayed:
- Is gauge on Std.
Block & Source
rod in SAFE pos?

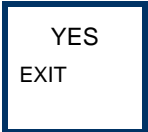
- Press YES
EXIT and the following is displayed:
- Taking
Standard Count
XX seconds
remaining


At the end of the counting period the following is displayed:

MS = XX XX %P
DS = XX XX %P
Do you want to use
the new STD?

Record the following values:

- MS as the **moisture standard count**.
- DS as the **density standard count**.

► Press  and the display will return to <**READY**>.

► Press  if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N102

STATISTICAL COUNT
TROXLER 3440**1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press ON and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When **<READY>** is displayed:

- Press SHIFT
x
- Press SPECIAL
9 and the following is displayed:
- SPECIAL FUNCTION
 YES - Next menu
 1 - STAT TEST
 2 - DRIFT TEST
- Press COUNTS
1 and the following is displayed:
- STAT TEST-
 Want to view last
 Stat Data?
- Press NO/CE
C/CE and the following is displayed:
- Put gauge on Std
 Block, rod in
 SAFE position &
 press START
- Press START/
ENTER
= and the following is displayed:
- STAT TEST-
 Reading #X
 Time=XX secs

At the end of the counting period the following will be displayed:

DENS STAT TEST
Avg cnts: XX
R: XX (XXXX)
ENTER for Moist

Record R as the **density ratio**.

► Press

START/
ENTER
=

and the following is displayed:

MOIST STAT TEST
Avg cnts: XX
R: XX (XXXX)
View Stat. data?

Record R as the **moisture ratio**.

► Press

NO/CE
C/CE

and display will return to <**READY**>.

► Press

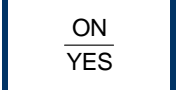
OFF

if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N103**STANDARD COUNT
TROXLER 3430****1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

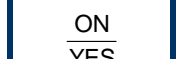
- Press  and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT


When **<READY>** is displayed:

- Press  and the following is displayed:

DS=XXXX MS=XXX
New Std Count?

- Press  and the following is displayed:

Press START for
Standard Count

- Press  and the following is displayed:


Standard Count
XXX Seconds

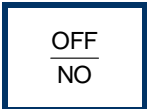
At the end of the counting period the following will be displayed:

Standard Count
DS=XXX MS=XXX

Record the following values:

- DS as the **density standard count**.
- MS as the **moisture standard count**.

- Press  and the display will return to **<READY>**.

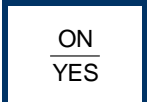
► Press  if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N104

STATISTICAL COUNT
TROXLER 3430**1 SET UP**


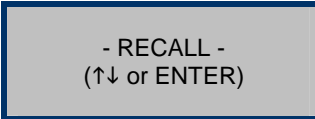

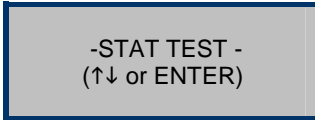

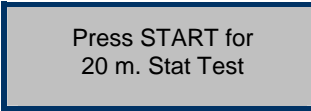

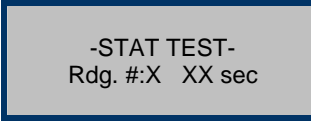
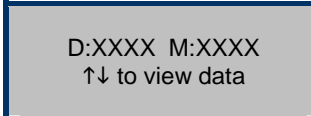
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

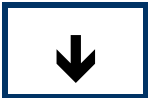
Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When <READY> is displayed:

- Press  and the following is displayed: 
- Press  repeatedly until the following is displayed: 
- Press  and the following is displayed: 
- Press  and the following is displayed: 
- At the end of the counting period the following will be displayed: 

- Press  and the following is displayed:

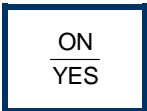
Dens.R=X.XXX
↑↓ to view data

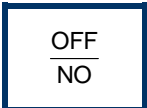
Record Dens. R as the **density ratio**.

- Press  repeatedly until the following is displayed:

Moist R=X.XXX
↑↓ to view data

Record Moist R as the **moisture ratio**.

- Press  and the display will return to <READY>.

- Press  if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N105

STANDARD COUNT TROXLER 3411B

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.


Check that the source rod handle is correctly located in the shielded position.

Turn the PWR/TIME switch to “**SLOW**” and allow the nuclear gauge to stabilise for at least 20 minutes before commencing the test.

2. Measurement

▶ Press   simultaneously.

At the end of the counting period, record the displayed value as the **density standard count**.

▶ Press  and record the displayed value as the **moisture standard count**.

▶ Turn the PWR/TIME switch to “**OFF**” if the nuclear gauge is not required for further use.

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OPERATING INSTRUCTION N106

STATISTICAL COUNT TROXLER 3411B

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.


Check that the source rod handle is correctly located in the shielded position.

Turn the PWR/TIME switch to “**NORM**” and allow the nuclear gauge to stabilise for at least 20 minutes before commencing the test.

2. Measurement

▶ Press   simultaneously.

At the end of the counting period, record the displayed value as the **density count**.

▶ Press  and record the displayed value as the **moisture count**.

Repeat the above until at least 20 density and moisture counts have been recorded.

▶ Turn the PWR/TIME switch to “**OFF**” if the nuclear gauge is not required for further use.

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OPERATING INSTRUCTION N107

STANDARD COUNT
TROXLER 4640B

1. Set-up

Position the air gap spacer on the reference block. Position the nuclear gauge on the spacer so that the handle end rests over the two posts on the spacer.

Check that the source rod handle is correctly located in the shielded position.

- ▶ Press

ON

 and allow the nuclear gauge to complete the self-test routine.

2. Measurement

When <READY> is displayed:

- ▶ Press

STD
÷

 and the following will be displayed:

-Standard Count-
XXXX XXXX
Take a new
Standard Count?

- ▶ Press

YES
EXIT

 and the following will be displayed:

Place Gauge on
Spacer & both on
Block, Put Rod in
SAFE, Press ENTER

- ▶ Press

START/
ENTER
=

 and the following will be displayed:


Taking
Standard Count.
XX seconds
remaining.


At the end of the counting period, the following will be displayed:

Std 1 Std 2
XXXX XXXX
X.XX%Z X.XX%Z
Use new Stds?

Record the following values:

- Std1 as the **System 1 standard count**.
- Std2 as the **System 2 standard count**.

► Press  and the display will return to <READY>.

► Press  if the nuclear gauge is not required for further use.


OPERATING INSTRUCTION N108

STATISTICAL COUNT
TROXLER 4640B

1. Set-up


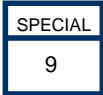
Position the air gap spacer on the reference block. Position the nuclear gauge on the spacer so that the handle end rests over the two posts on the spacer.

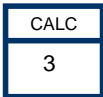
Check that the source rod handle is correctly located in the shielded position.


- Press  and allow the nuclear gauge to complete the self-test routine.

2. Measurement

When <READY> is displayed:

- Press   and the following will be displayed:
- Special Function
Yes - Next Menu
1 - Surface Voids
2 - Recover Erase

- Press  and the following will be displayed:
- Place Gauge on
Spacer & both on
Block, Put Rod in
SAFE, Press ENTER

- Press  and the following will be displayed:
- STAT TEST-
Reading # X



Time: XX secs.

At the end of the counting period, the following will be displayed:

-STAT TEST-
Avg: XXXX X.XX Z
Avg: XXXX X.XX Z
View stat data?

Record the second value on the first line of displayed data as the **System 1 density ratio**.

Record the second value on the second line of displayed data as the **System 2 density ratio**.

- ▶ Press  and the display will return to <READY>.
- ▶ Press  if the nuclear gauge is not required for further use.

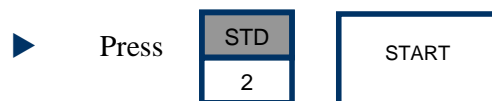
OPERATING INSTRUCTION N109

STANDARD COUNT
CPN MC3**1. Set-up**

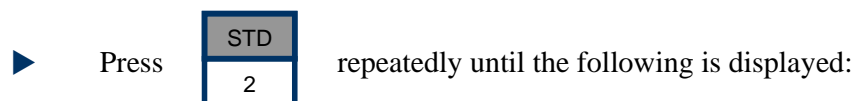
For a 50 mm thick reference block, place the transport case on its end with the CPN logo uppermost. Locate the reference block with the three studs upright on the case across the protective strips. Position the nuclear gauge on the block so that the studs on the block fit into the depressions in the gauge base.

For a 75 mm thick reference block, position the nuclear gauge on the reference block so that the studs fit into the depressions in the nuclear gauge base.

Check that the source rod handle is correctly located in the shielded position.

2. Measurement

At the end of the counting period:



cpm	wet	h2o
Prv	XXXX	XXXX
Std	XXXX	XXXX
Xi	XXXX	XXXX
N	256	256
START	new standard	
CLEAR	exit	

Record the following values:

- Std wet as **density standard count**.
- Std h2o as **moisture standard count**

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OPERATING INSTRUCTION N110

STATISTICAL COUNT
CPN MC3**1. Measurement**

A statistical analysis is performed using data obtained during a standard count. The analysis is displayed together with the density and moisture standard counts.

Following completion of the standard count as detailed in Operating Instruction N109, the following will be displayed:

Cpm	wet	h2o
Prv	XXXX	XXXX
Std	XXXX	XXXX
Xi	XXXX	XXXX
N	256	256
START	new standard	
CLEAR	Exit	

Record the following values:

- Xi wet as the **density ratio**.
- Xi h2o as the **moisture ratio**.

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OPERATING INSTRUCTION N111

STANDARD COUNT
CPN MC1DR; MC1DR-P**1. Set-up**

Position the nuclear gauge on the reference block so that the studs on the block fit into the depressions on the nuclear gauge base.

Check that the source rod handle is correctly located in the shielded position.

2. Measurement

► Press STD START

At the end of the counting period, the following will be displayed:

Dstd	XXXXX
Mstd	XXXXX

Record the following values:

- Dstd as the **density standard count**.
- Mstd as the **moisture standard count**.

After 30 seconds, the display will turn off.

► Press STD **OR** START to restore the display.

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OPERATING INSTRUCTION N112

STANDARD COUNT
CPN MC1DR; MC1DR-P**1. Measurement**

The statistical analysis is performed using data obtained during a standard count.

Following completion of the standard count as detailed in Operating Instruction N111:



Press



The following will be displayed:

Dxi	XXXX
Mxi	XXXX

Record the following values:

- Dxi as the **density ratio**.
- Mxi as the **moisture ratio**.

After 30 seconds, the display will turn off.



Press



OR



to restore the display.

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OPERATING INSTRUCTION N113

STANDARD COUNT HUMBOLDT 5001EZ

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge closest to the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the initialising routine.

The following will be displayed:

```
*DATA  XX/XX/XX
*SET UP XX:XX:XX
*ENGINEERING
DEPTH=SAF
```

2. Measurement

- Press  and the following will be displayed:

```
*SET UP 2
*SET MEASUREMENT MODES
*SET TRNCH COR.
*SET TARGETS
```

- Press  and the following will be displayed:

```
MEAS  = FAST/NORM/SLOW
STD   = 4MIN/16MIN
TYPE  = ASPH/SOIL/THIN
DEPTH = AUTO/MANUAL
```

- Press  repeatedly until “4MIN” flashes.

- Press  and the following will be displayed:

```
DS = XXXX    MM/DD/YY
MS = XXX     MM:HH
* TAKE NEW STD
* USE CURRENT STD
```

► Press **F3** and the following will be displayed:

TAKING STANDARD
TIME REMAINING X:XX
DS = X
MS = X **DEPTH = SAF**

► At the end of the counting period, the following will be displayed:

STD TEST RESULTS
DS = XXXX.X
MS = XXX.X

OR

DS = XXXX **%ERR = X.X**
MS = XXX **%ERR = X.X**
***REJECT & TAKE NEW STD**
***RETAIN THE NEW STD**

Record the following displayed values if no error message is displayed:

- DS as the **density standard count**.
- MS as the **moisture standard count**.

► Press **MAIN MENU** and the display will return to the main menu.

If an error message is displayed:

► Press **F4** **MAIN MENU** and the display will return to the main menu.

► Press **PWR** if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N114

STATISTICAL COUNT
HUMBOLDT 5001EZ

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge closest to the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press PWR and allow the nuclear gauge to complete the initialising routine.

The following will be displayed:

*DATA XX/XX/XX

*SET UP XX:XX:XX

*ENGINEERING

DEPTH=SAF

2. Measurement

- Press F2 and the following will be displayed:

*SET UP 2

*SET MEASUREMENT MODES

*SET TRNCH COR.

*SET TARGETS

- Press F2 and the following will be displayed:

MEAS = FAST/NORM/SLOW

STD = 4MIN/16MIN

TYPE = ASPH/SOIL/THIN

DEPT = AUTO/MANUAL

- Press F2 repeatedly until “16MIN” flashes.

- Press STD
STAT and the following will be displayed:

DS = XXXX

MS = XXX

* TAKE NEW STD

* USE CURRENT STD

MM/DD/YY

MM:HH

- Press **F3** and the following will be displayed:
- | | |
|-------------------|-------------|
| TAKING STATISTICS | |
| TIME REMAINING | X:XX |
| DS =X | |
| MS =X | DEPTH = SAF |

- At the end of the counting period, the following will be displayed:




STAT TEST RESULTS DS = XXXX.X R = X.XXX MS = XXX.X R = X.XXX	OR	DS = XXXX %ERR = X.X MS = XXX %ERR = X.X *REJECT & TAKE NEW STD *RETAIN THE NEW STD
---	----	--

Record the following displayed values:

- R in the DS row as the **density ratio**.
- R in the MS row as the **moisture ratio**.

If an error message is displayed:

- Press **F4** **F3** to take new counts.
- Press **MAIN MENU** and the display will return to the main menu.
- Press **F2** and the following will be displayed:
- | | |
|--------------------|--|
| *SET UP 2 | |
| *SET MEASURE MODES | |
| *SET TRENCH COR. | |
| *SET TARGETS | |
- Press **F2** and the following will be displayed:
- | | |
|-------|-----------------|
| MEAS | =FAST/NORM/SLOW |
| STD | =4MIN/16MIN |
| TYPE | =ASPH/SOIL/THIN |
| DEPTH | =AUTO/MANUAL |

- ▶ Press  repeatedly until “**4MIN**” flashes.
- ▶ Press  and the display will return to the main menu.
- ▶ Press  if the nuclear gauge is not required for further use.


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OPERATING INSTRUCTION N115



STANDARD COUNT
HUMBOLDT 5001C**1. Set-up**


Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.



Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the initialising routine.

The following will be displayed:



2. Measurement


- Press  and the following will be displayed:

At the end of the counting period, the following will be displayed:





Record the displayed value as the **density standard count**.

- Press  and the following will be displayed:




Record the displayed value as the **moisture standard count**.

- Press  if the nuclear gauge is not required for further use.


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OPERATING INSTRUCTION N116

STATISTICAL COUNT
HUMBOLDT 5001C**1. Set-up**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the initialising routine.

The following will be displayed:

SAF

000000

2. Measurement

- Press   and the following will be displayed:


S:SAF


XX.XX


At the end of the counting period, the following will be displayed:

SAF

XXXX.X

- Press  and record the displayed value as the **density ratio**.

- Press  and record the displayed value as the **moisture ratio**.

- Press  if the nuclear gauge is not required for further use.

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OPERATING INSTRUCTION N117


STANDARD COUNT
HUMBOLDT 5001P

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge closest to the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

2. Measurement

- Press  and allow the nuclear gauge to stabilise for at least 10 minutes before commencing the test.

The following will be displayed:

XXX

XXXX

Note: The previously set depth will be displayed. It is not necessary to adjust the displayed depth.

- Press   simultaneously and the following will be displayed:

C:XXX


X.XX


At the end of the counting period, the following will be displayed:

C:XXX

XXXX.X

Record the displayed value as the **density standard count**.

► Press  and record the displayed value as the **moisture standard count**.

► Press  if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N118


STATISTICAL COUNT
HUMBOLDT 5001P

1. Set-up

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge closest to the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

2. Measurement



- Press  and allow the nuclear gauge to stabilise for at least 10 minutes before commencing the test.

The following will be displayed:

XXX

XXXX

Note: The previously set depth will be displayed. It is not necessary to adjust the displayed depth.

- Press   simultaneously and the following will be displayed:
- S:XXX

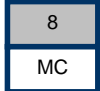
XX.XX

At the end of the counting period, the following will be displayed:

S:XXX

XXXX.X

Record the displayed value as the **density ratio**.

► Press  and record the displayed value as the **moisture ratio**.

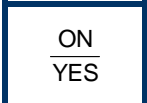
► Press  if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N119

STANDARD COUNT
INSTROTEK XPLOER 3500**1 SET UP**


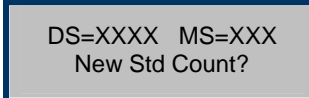
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

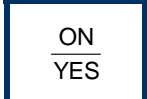
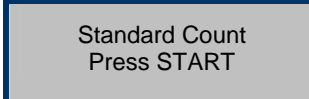
Check that the source rod handle is correctly located in the shielded position.


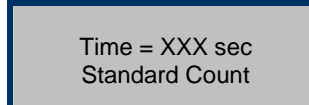
- Press  and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

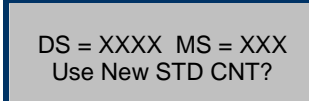
When <READY> is displayed

- Press  and the following is displayed: 

- Press  and the following is displayed: 

- Press  and the time will count down from 240 seconds and display: 

At the end of the counting period the following will be displayed:



Record the following values:

- DS as the **density standard count**.
- MS as the **moisture standard count**.

- ▶ Press

ON
YES

 and display will return to <READY>.

- ▶ Press

OFF
NO

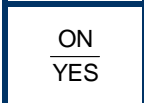
 if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N120

STATISTICAL COUNT
INSTROTEK XPLOER 3500**1 SET UP**


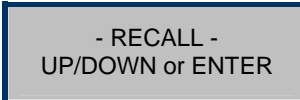
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.


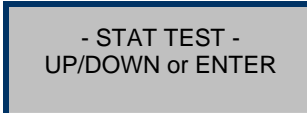
Check that the source rod handle is correctly located in the shielded position.


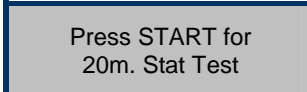
- Press  and allow the nuclear gauge to complete the self-test routine.


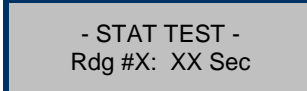
2 MEASUREMENT

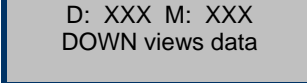
When <READY> is displayed


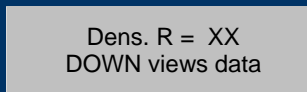
- Press  and the following is displayed: 

- Press  repeatedly until the following is displayed: 

- Press  and the following is displayed: 

- Press  and the following is displayed: 

At the end of the counting period the following is displayed: 

- Press  and the following is displayed: 

Record Dens. R as the **density ratio**.

- Press DOWN repeatedly until the following is displayed:

Moist. R = XX
DOWN views data

Record Moist R as the **moisture ratio**.

- Press START
ENTER and the display will return to <**READY**>.

- Press OFF
NO if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N121**STANDARD COUNT
TROXLER 3440P****1 SET UP**

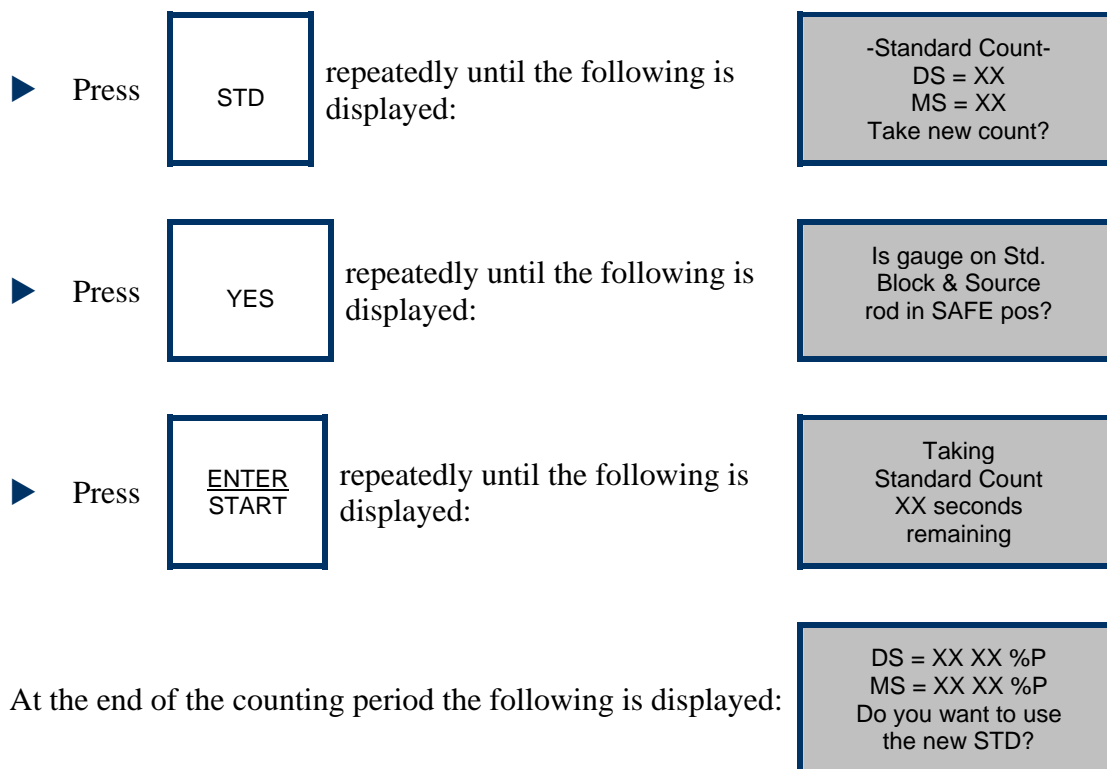
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- ▶ Turn the power switch on and allow the nuclear gauge to complete the self-test routine.


2 MEASUREMENT

When <READY> is displayed:



Record the following values:

- MS as the **moisture standard count**.
- DS as the **density standard count**.

- ▶ Press  and the display will return to <READY>.
- ▶ Turn the power switch off if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N122**STATISTICAL COUNT
TROXLER 3440P****1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- ▶ Turn the power switch on and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When **<READY>** is displayed:

- ▶ Press **SETUP**
- ▶ Press **↓** Until stat test appears as an option
- ▶ Press **4** the following is displayed:

1. Take STAT Test
 2. Review STAT Test
 3. Print STAT Test
<ESC> to Exit
- ▶ Press **1** the following is displayed:

Place Gauge on
Std. Block & Source
Rod in SAFE Pos.
Press <START>
- ▶ Press **ENTER
START**

At the end of the counting period the following will be displayed:

DENS STAT TEST
Avg cnts: XXXX
R: XX (XXXX)
ENTER for Moist

Record R as the **density ratio**.

► Press

ENTER
START

 the following is displayed:

MOIST STAT TEST
Avg cnts: XX
R: XX (XXXX)
View Stat. data?

Record R as the **moisture ratio**.

► Press

NO

 and display will return to the SETUP menu.

► Press

ESC

 to exit.

► Turn the power switch off if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N123**STANDARD COUNT
TROXLER 3430P****1 SET UP**

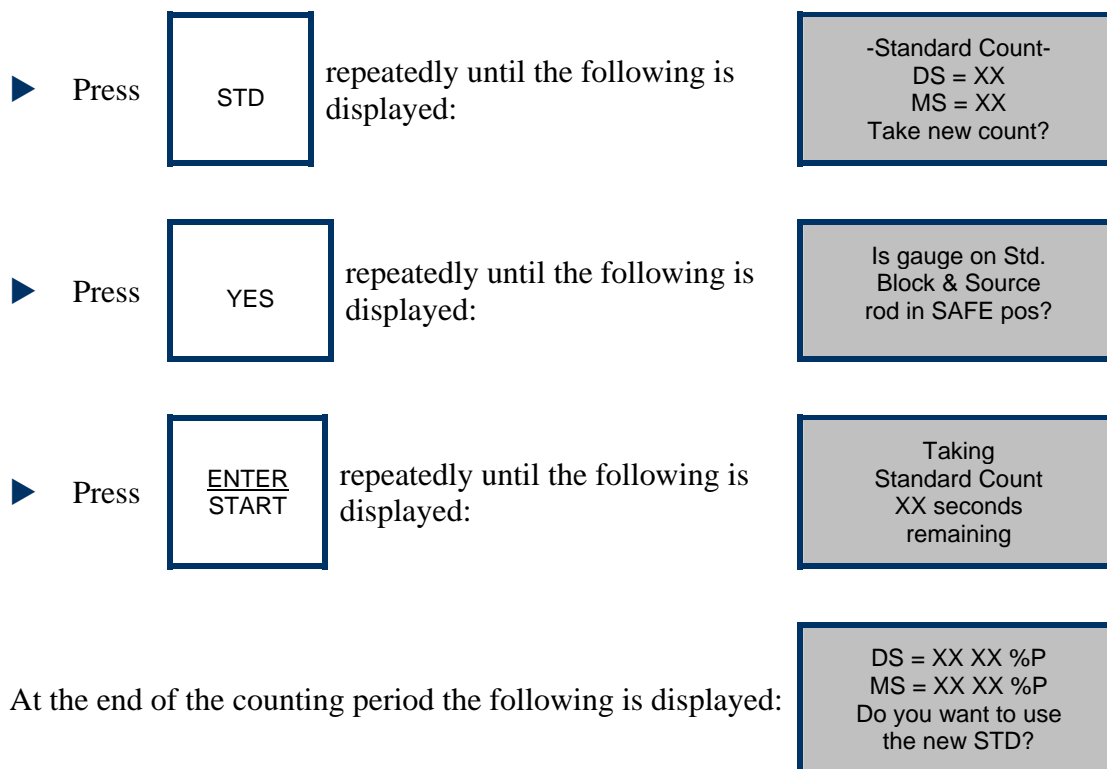
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- ▶ Turn the power switch on and allow the nuclear gauge to complete the self-test routine.


2 MEASUREMENT

When <READY> is displayed:



Record the following values:

- MS as the **moisture standard count**.
- DS as the **density standard count**.

- ▶ Press  and the display will return to <READY>.

- ▶ Turn the power switch off if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N124

STATISTICAL COUNT
TROXLER 3430P**1 SET UP**






Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

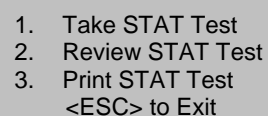
Check that the source rod handle is correctly located in the shielded position.

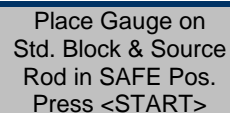
- ▶ Turn the power switch on and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When <READY> is displayed:

- ▶ Press 
- ▶ Press  Until stat test appears as an option
- ▶ Press  the following is displayed:
- ▶ Press  the following is displayed:
- ▶ Press 

- 
1. Take STAT Test
 2. Review STAT Test
 3. Print STAT Test
<ESC> to Exit



Place Gauge on
Std. Block & Source
Rod in SAFE Pos.
Press <START>

At the end of the counting period the following will be displayed:

DENS STAT TEST
Avg cnts: XXXX
R: XX (XXXX)
ENTER for Moist

Record R as the **density ratio**.

► Press

ENTER
START

 the following is displayed:

MOIST STAT TEST
Avg cnts: XX
R: XX (XXXX)
View Stat. data?

Record R as the **moisture ratio**.

► Press

NO

 and display will return to the SETUP menu.

► Press

ESC

 to exit.

► Turn the power switch off if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N125**STANDARD COUNT
TROXLER 3450****1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

► Press

ON

and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When <READY> is displayed:

► Press

STANDARD

the following is displayed:

DS = XXXX XXXX
MS = XXXX
1 - Take new count
2 - View counts

► Press

1

the following is displayed:

Put Rod In STD Pos
Place Gauge On
Standard Block
Press ENTER

► Press

ENTER

the following is displayed:

Taking
Standard Count
XX seconds
remaining

At the end of the counting period the following is displayed:

DS1 = XXXX X.X%PASS
DS2 = XXXX X.X%PASS
MS = XXXX X.X%PASS
Use New Standard ?

Record the following values:

- MS as the **moisture standard count**.
- DS1 + DS2 as the **density standard count**.

▶ Press and the display will return to <**READY**>.

▶ Press if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N126**STATISTICAL COUNT
TROXLER 3450****1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press ON and allow the nuclear gauge to complete the self - test routine

2 MEASUREMENT

When <READY> is displayed:

- Press SPECIAL

- Press 2 To access the Gauge Status/Test menu:

- Press 2 and the following is displayed:

1 – Take STAT Test
2 – Review STAT Test
3 – Print STAT Data
Press ESC To Exit

- Press 1 and the following is displayed:

Put Rod In STD Pos
Place Gauge On
Standard Block
Press ENTER

- Press ENTER and the gauge displays the progress of the STAT test.

At the end of the counting period the following will be displayed:

STAT Test	Avg	R
D-1: PASS	xxxx	xxxx
D-2: PASS	xxxx	xxxx
M: PASS	xxxx	xxxx

Record $R(D-1) + R(D-2)$ as the **density ratio**.

Record R as the **moisture ratio** for M.


- Press <ESC> to return to the **<READY>** screen.

- Press OFF if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N127**STANDARD COUNT
CPN MC1 AND MC3 ELITE****1 SET UP**

Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT


When <READY> is displayed:

- Press  and the following is displayed:

DS= ###
MS= ###
Take new Std Count?
Press YES or NO

- Press  and the following is displayed:

Place Gauge on Poly
Std. Block in SAFE
Position
Press Start

- Press  and the following is displayed:

Standard Count
Time: XXX sec.

At the end of the counting period the following will be displayed:

DS= ###
MS= ###
Use new STD CNT?
Press YES or NO

Record the following values:

- DS as the **density standard count**.
- MS as the **moisture standard count**.

- ▶ Press

ON
YES

 and the display will return to <**READY**>.

- ▶ Press

OFF
NO

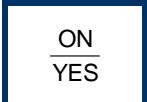
 if the nuclear gauge is not required for further use.

OPERATING INSTRUCTION N128

STATISTICAL COUNT
CPN MC1 AND MC3 ELITE**1 SET UP**



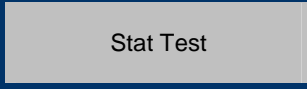
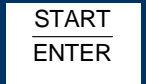
Position the nuclear gauge on the reference block between its raised edges, such that the side of the nuclear gauge furthest from the source rod is in contact with the metal plate on the side of the block.

Check that the source rod handle is correctly located in the shielded position.

- Press  and allow the nuclear gauge to complete the self-test routine.

2 MEASUREMENT

When <**READY**> is displayed:

- Press 
- Press  When the display reads: 
- Press 

After 20 minutes the display will show the results of the test, you can scroll through to see each count.

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